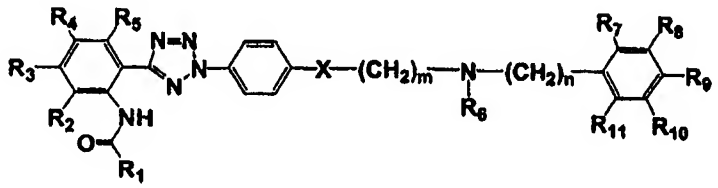
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Original) A compound of formula (I) or a pharmaceutically acceptable salt thereof:



(I)

wherein,

R_1 is aryl, heteroaryl, acrylaryl, acrylheteroaryl, heterocycloalkenyl, or carbocyclo, which is optionally substituted with one or more substituents selected from the group consisting of C_{1-5} alkyl, hydroxy, C_{1-5} alkoxy, halogen, trifluoromethyl, nitro and amino;

R_2, R_3, R_4, R_5, R_6, R_7, R_8, R_9, R_{10} and R_{11} are each independently hydrogen, hydroxy, halogen, nitro, C_{1-5} alkyl or alkoxy, R_6 and R_{11} being optionally fused together to form a 4 to 8-membered ring;

m and n are each independently an integer ranging from 0 to 4; and

X is CH_2, O or S.

2. (Currently amended) The compound of claim 1, wherein R_1 is unsubstituted or substituted phenyl, pyridine, pyrazine, quinoline, isoquinoline, quinazoline, quinoxaline,

pyrazole, imidazole, triazole, oxazole, thiazole, oxadiazole, thiadiazole, ~~benzthiazole~~benzothiazole, benzoxazole, chromone, quinolone, cinnamic or quinoline acryl.

3. (currently amended): The compound of claim 2, which is selected from the group consisting of:

quinoline-3-carboxylic acid [2-(2-4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoline-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

isoquinoline-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoline-8-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

isoquinoline-1-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoline-4-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

4-methoxy-quinoline-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoxaline-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

pyridine-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-nicotinamide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-isonicotinamide;

pyraizine-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-benzamide;

naphthalene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-2-fluoro-benzamide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-3-fluoro-benzamide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-4-fluoro-benzamide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-3,4-difluoro-benzamide;

thiophene-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

furan-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

6-methyl-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

5-hydroxy-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

5-methoxy-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

6-fluoro-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

6-bromo-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

cinoline-4-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

4-oxo-4H-chromene-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoline-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-difluoro-phenyl]-amide;

quinoline-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethylsulfanyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

~~quinoline-3-carboxylic acid~~ N-(2-~~[~~-(2-(4-(2-(6,7-dimethoxy-3,4-dihydroisoquinoline-2(1H)-yl) ~~isoquinolin-2-yl~~ ethyl)phenyl)-2H-tetrazol-5-yl~~]~~-)-4,5-dimethoxy[[-]]phenyl)quinoline-3-carboxamide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-3-phenyl-acrylamide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-3-quinolin-3-yl-acrylamide; and

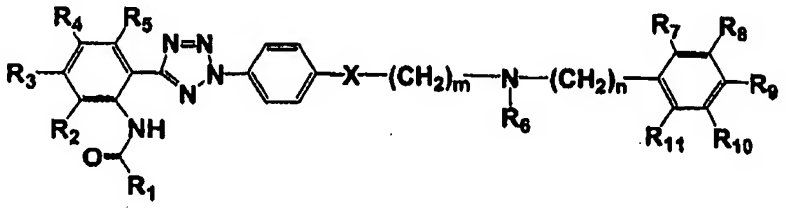
4-oxo-4H-chromene-2-carboxylic acid (2-{2-[4-(2-{[2-(3,4-dimethoxy-phenyl)-ethyl]-methyl-amino}-ethyl)-phenyl]-2H-tetrazol-5-yl}-4,5-dimethoxy-phenyl)-amide.

4. (currently amended): A process for preparing a compound of formula (I), which comprises the steps of:

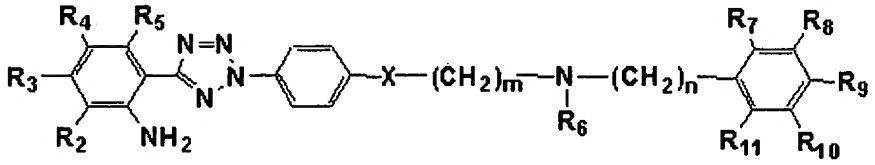
(i) cyclizing a compound of formula (V) with a compound of formula (VI) in the presence of a base to obtain a compound of formula (IV);

(ii) hydrogenating the compound of formula (IV) in the presence of a catalyst to obtain a compound of formula (II); and

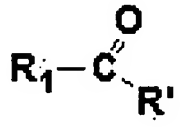
(iii) acylating the compound of formula (II) with a compound of formula (III) in the presence of a base or a condensing agent to give the compound of formula (I):



(I)



(II)



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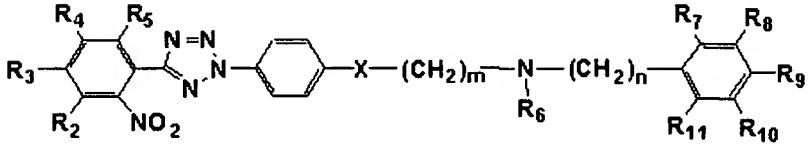

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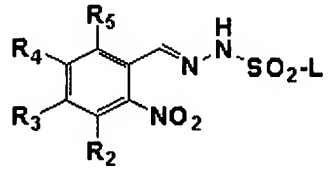
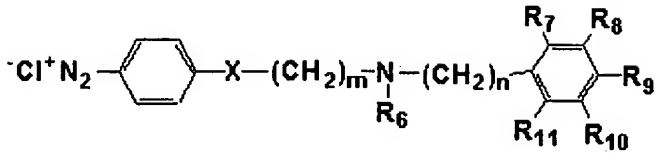


(V)



(VI)

wherein,

~~R_1, R_2, R_3, R_4, R_5, R_6, R_7, R_8, R_9, R_{10}, R_{11}, m, n and X have the same meanings as defined in claim 1;~~ R_1 is aryl, heteroaryl, acrylaryl, acrylheteroaryl, heterocycloalkenyl, or carbocyclo, which is optionally substituted with one or more substituents selected from the group consisting of C_{1-5} alkyl, hydroxy, C_{1-5} alkoxy, halogen, trifluoromethyl, nitro and amino;

R_2, R_3, R_4, R_5, R_6, R_7, R_8, R_9, R_{10} and R_{11} are each independently hydrogen, hydroxy, halogen, nitro, C_{1-5} alkyl or alkoxy, R_6 and R_{11} being optionally fused together to form a 4 to 8-membered ring;

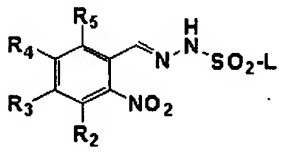
m and n are each independently an integer ranging from 0 to 4;

X is CH_2, O or S;

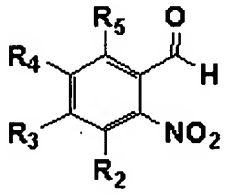
R' is OH, Cl or Br; and

L is benzyl or tolyl.

5. (Original) The process of claim 4, wherein the compound of formula (V) is prepared by reacting a compound of formula (VII) with toluenesulfonyl chloride or benzenesulfonyl chloride:



(V)

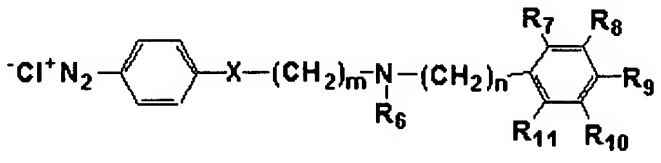


(VII)

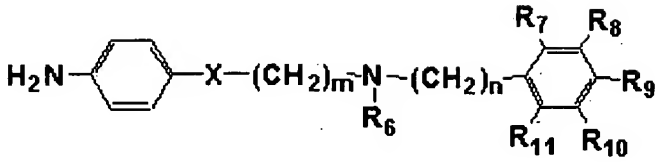
wherein,

R_2, R_3, R_4, R_5 and L have the meanings as defined in claim 4.

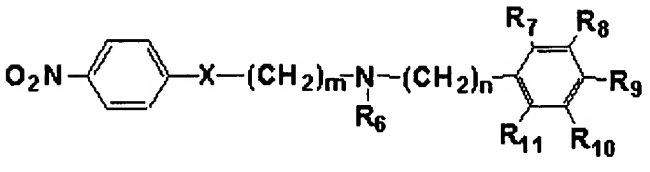
6. (Original) The process of claim 4, wherein the compound of formula (VI) is prepared by reacting a compound of formula (X) with a compound of formula (XI) in the presence of a base, to obtain a compound of formula (IX); hydrogenating the compound of formula (IX) in the presence of a catalyst, to obtain a compound of formula (VIII); and reacting the compound of formula (VIII) with sodium nitrite and HCl:



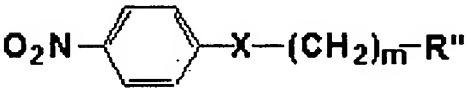
(VI)



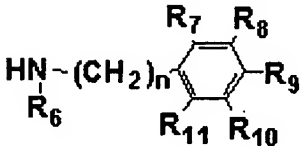
(VIII)



(IX)



(X)



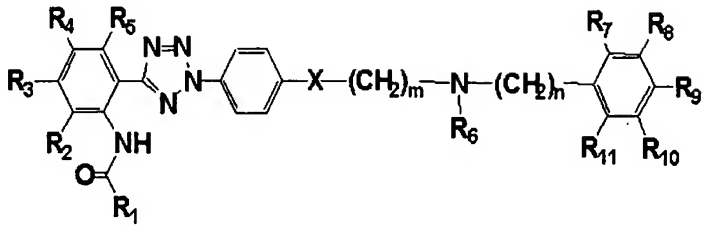
(XI)

wherein,

R_6, R_7, R_8, R_9, R_{10}, R_{11}, m, n and X have the same meanings as defined in claim 4; and

R" is OH, Cl or Br.

7. (Original) A pharmaceutical composition for inhibiting the activity of p-glycoprotein comprising a compound of formula (I) or a pharmaceutically acceptable salt thereof as an active ingredient, together with a pharmaceutically acceptable carrier:



(I)

wherein,

R_1 is aryl, heteroaryl, acrylaryl, acrylheteroaryl, heterocycloalkenyl, or carbocyclo, which is optionally substituted with one or more substituents selected from the group consisting of C_{1-5} alkyl, hydroxy, C_{1-5} alkoxy, halogen, trifluoromethyl, nitro and amino;

R_2, R_3, R_4, R_5, R_6, R_7, R_8, R_9, R_{10} and R_{11} are each independently hydrogen, hydroxy, halogen, nitro, C_{1-5} alkyl or alkoxy, R_6 and R_{11} being optionally fused together to form a 4 to 8-membered ring;

m and n are each independently an integer ranging from 0 to 4; and

X is CH_2, O or S.

8. (Original) The composition of claim 7, which further comprises an anticancer agent.

9. (Original) The composition of claim 8, wherein the anticancer agent is selected from the group consisting of paclitaxel, docetaxel, vincristine, vinblastine, vinorelbin, daunomycin, doxorubicin, topotecan, irinotecan, actinomycin and etopocid.